

Appendix Test Data

Report No.:	182512C400148101	Test Sample No.:	1-2-2
Start Test Date:	2024.6.3	Finish Test Date:	2024.6.12
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.5℃	Relative Humidity:	48%
Pressure:	101kPa		

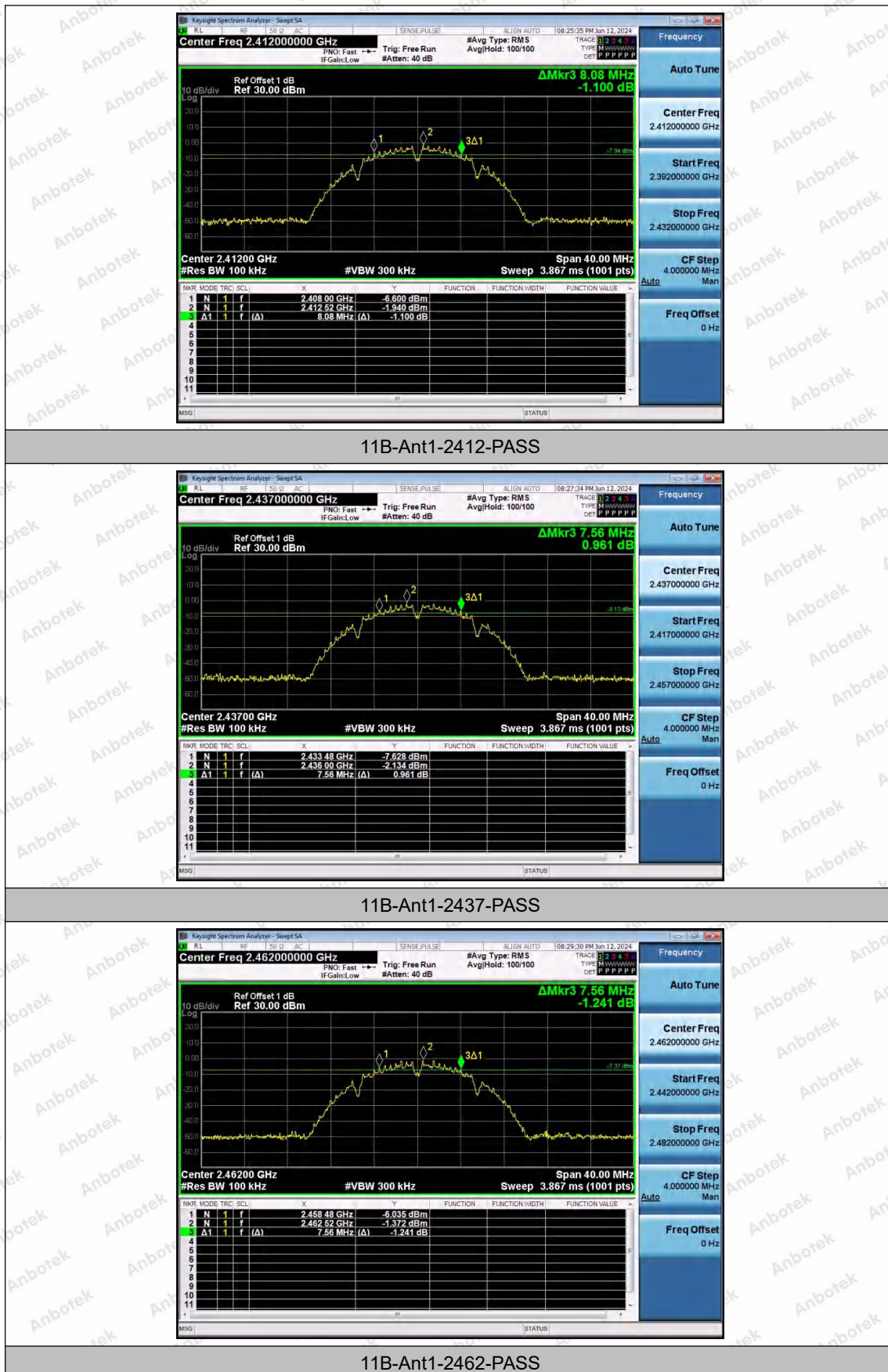
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2408.000	2416.080	0.5	PASS
11B	Ant1	2437	7.560	2433.480	2441.040	0.5	PASS
11B	Ant1	2462	7.560	2458.480	2466.040	0.5	PASS
11G	Ant1	2412	15.280	2404.480	2419.760	0.5	PASS
11G	Ant1	2437	14.440	2429.440	2443.880	0.5	PASS
11G	Ant1	2462	15.680	2454.120	2469.800	0.5	PASS
11N20SISO	Ant1	2412	15.440	2404.480	2419.920	0.5	PASS
11N20SISO	Ant1	2437	14.200	2430.680	2444.880	0.5	PASS
11N20SISO	Ant1	2462	15.320	2454.440	2469.760	0.5	PASS



Test Graphs



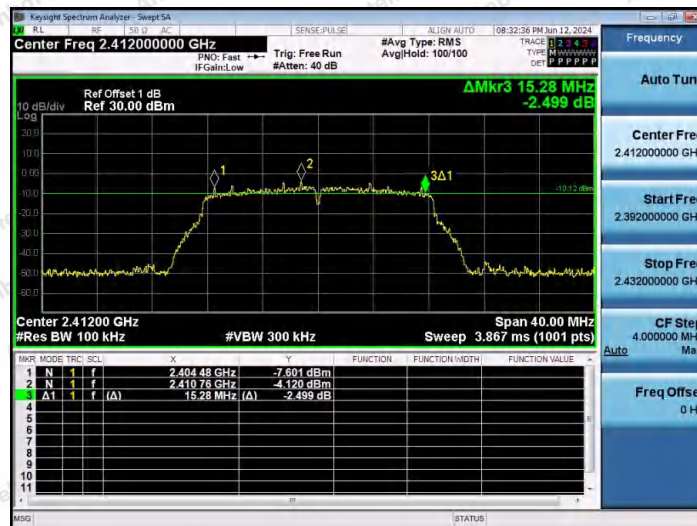
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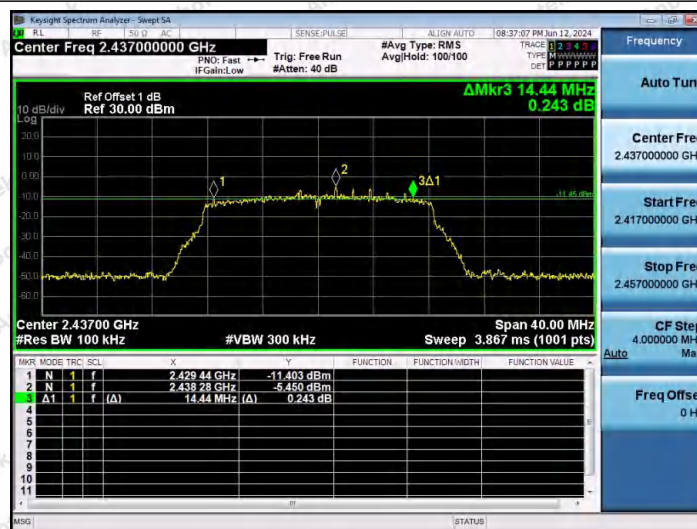


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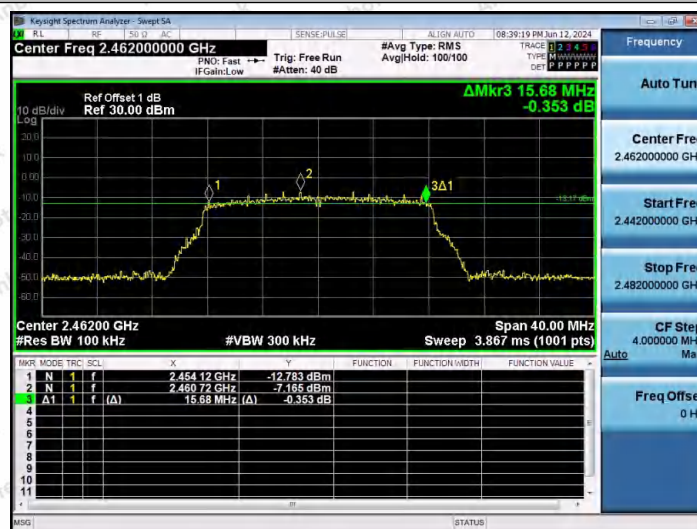




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



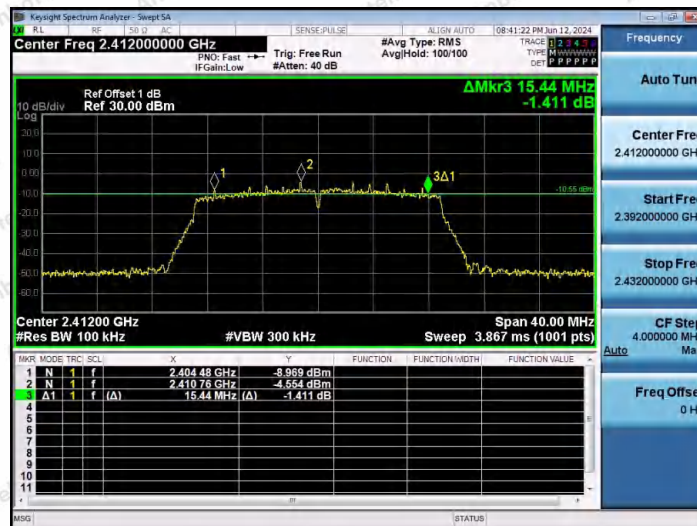
11G-Ant1-2462-PASS

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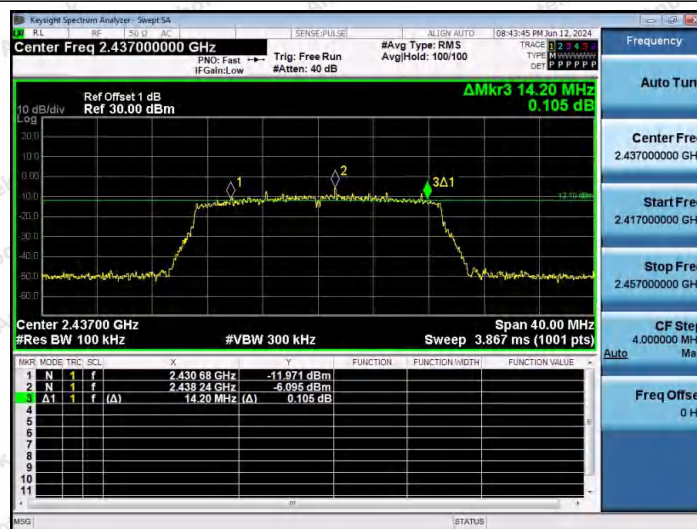
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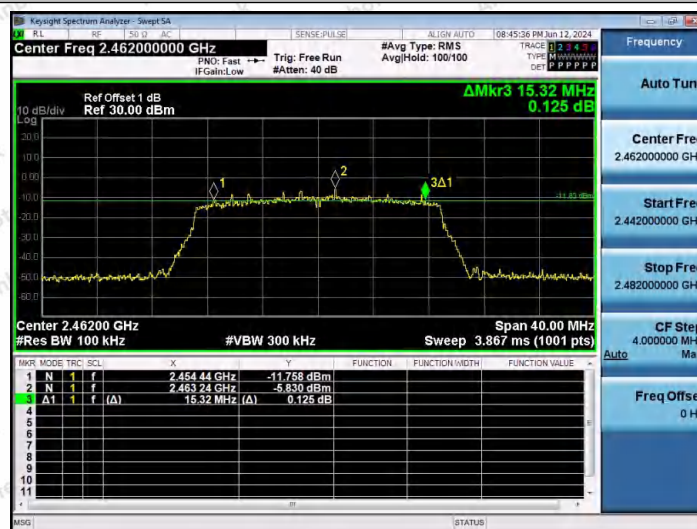




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.775	2405.7174	2418.4924	---	---
11B	Ant1	2437	12.750	2430.7556	2443.5056	---	---
11B	Ant1	2462	12.707	2455.7726	2468.4796	---	---
11G	Ant1	2412	16.723	2403.7291	2420.4521	---	---
11G	Ant1	2437	16.794	2428.7240	2445.5180	---	---
11G	Ant1	2462	16.768	2453.7331	2470.5011	---	---
11N20SISO	Ant1	2412	17.796	2403.2004	2420.9964	---	---
11N20SISO	Ant1	2437	17.813	2428.2066	2446.0196	---	---
11N20SISO	Ant1	2462	17.772	2453.1956	2470.9676	---	---



Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

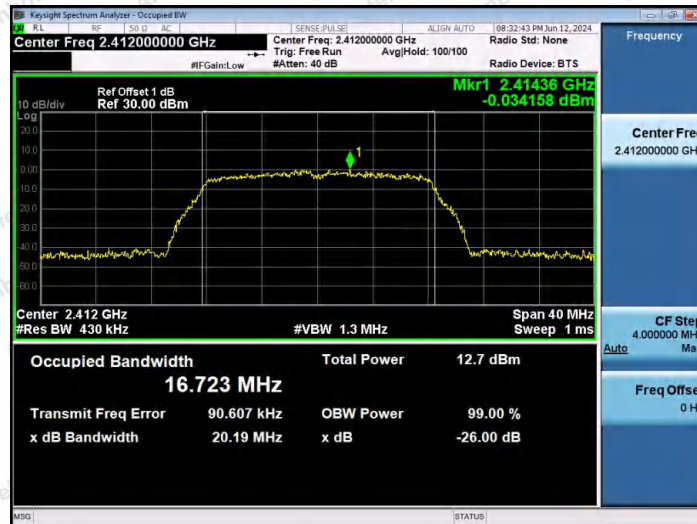
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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

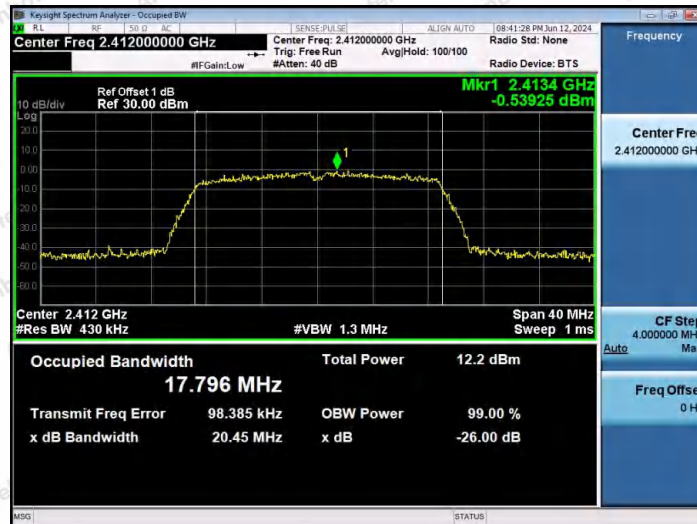
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11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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Appendix C: Maximum conducted output power

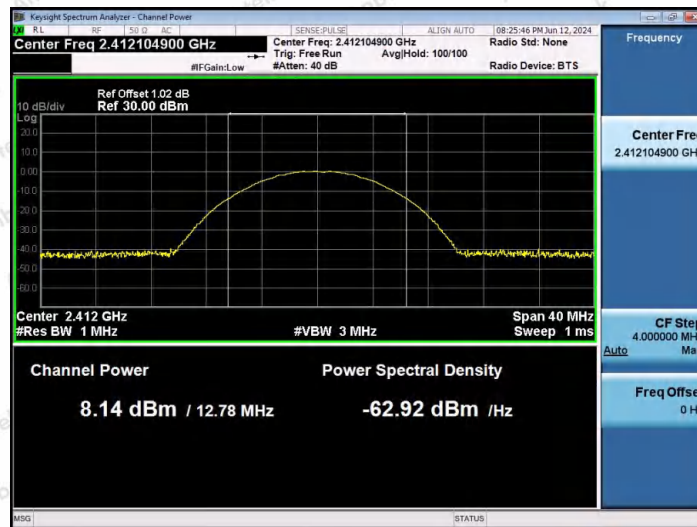
Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.12	99.52	0.02	8.14	≤30.00	PASS
11B	Ant1	2437	8.02	99.53	0.02	8.04	≤30.00	PASS
11B	Ant1	2462	7.96	99.64	0.02	7.98	≤30.00	PASS
11G	Ant1	2412	8.75	97.20	0.12	8.87	≤30.00	PASS
11G	Ant1	2437	8.83	96.53	0.15	8.98	≤30.00	PASS
11G	Ant1	2462	8.50	96.53	0.15	8.65	≤30.00	PASS
11N20SISO	Ant1	2412	8.64	97.01	0.13	8.77	≤30.00	PASS
11N20SISO	Ant1	2437	8.73	97.01	0.13	8.86	≤30.00	PASS
11N20SISO	Ant1	2462	8.55	97.01	0.13	8.68	≤30.00	PASS

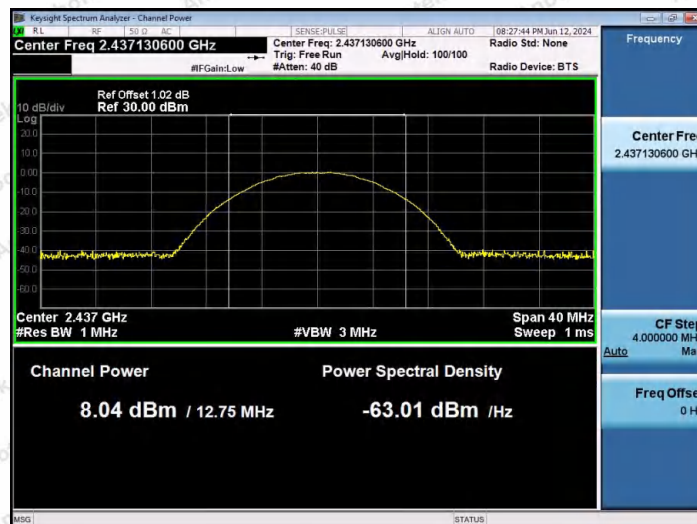
Note: The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.



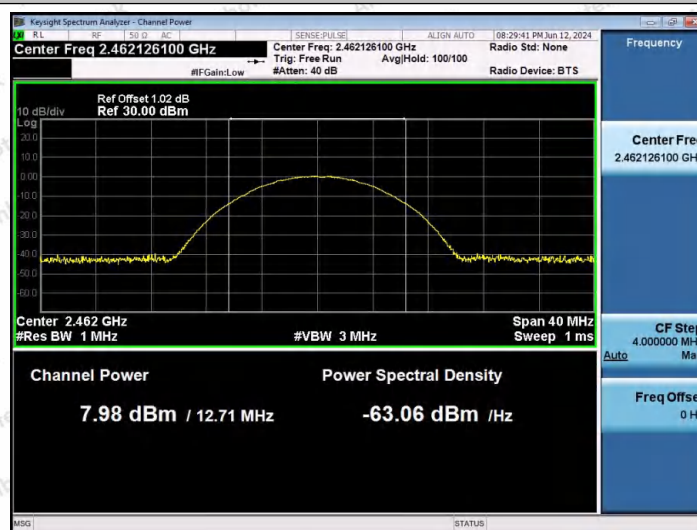
Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

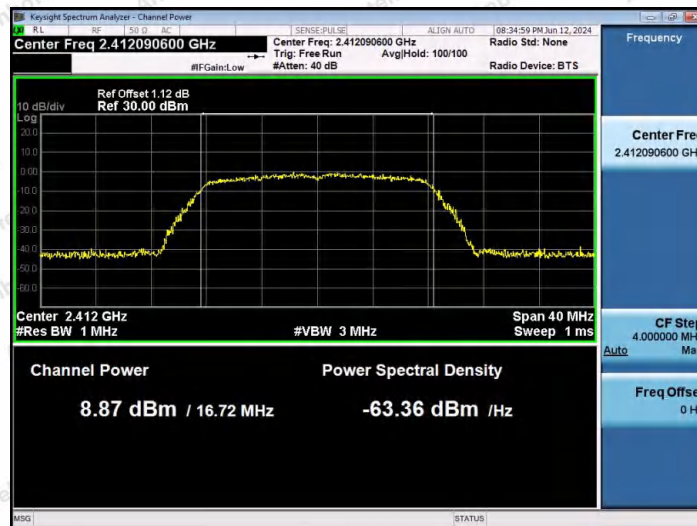
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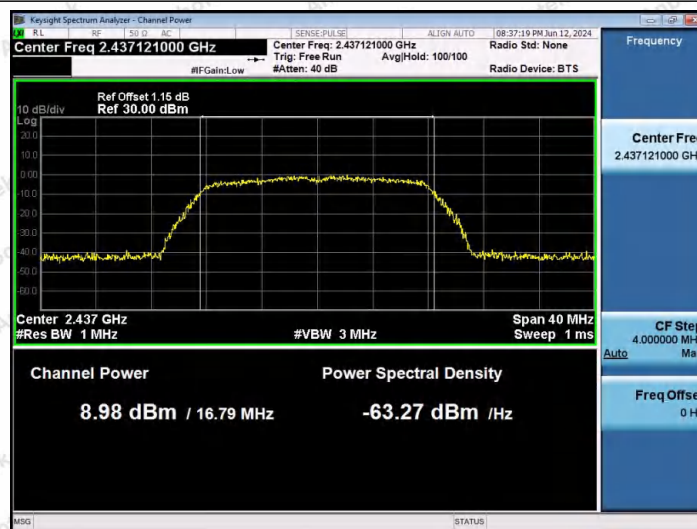


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11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

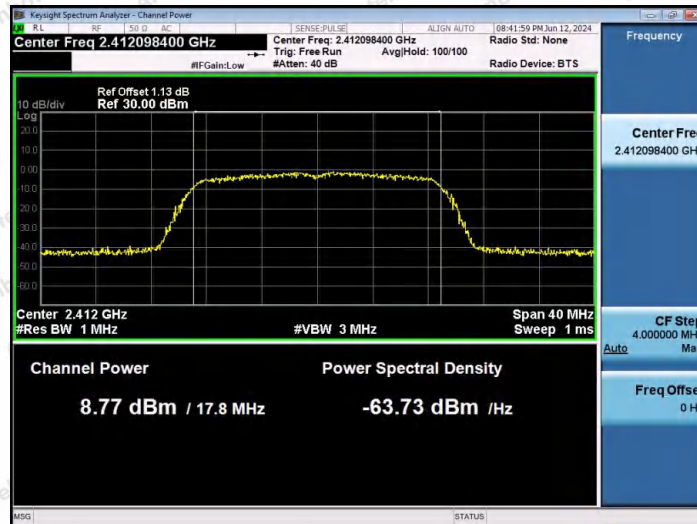
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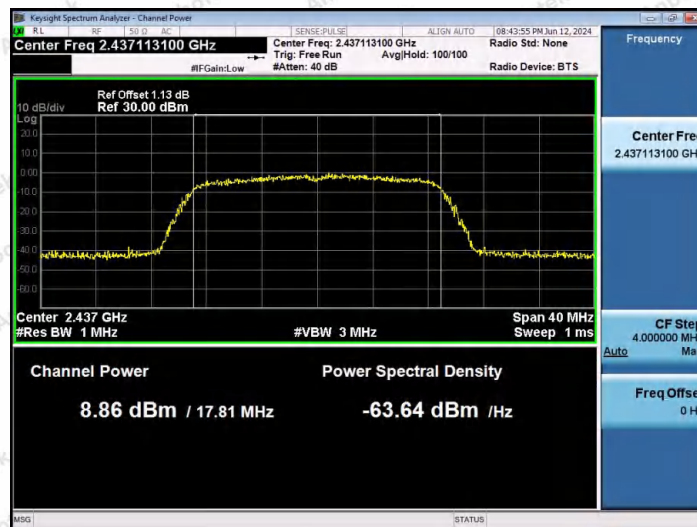


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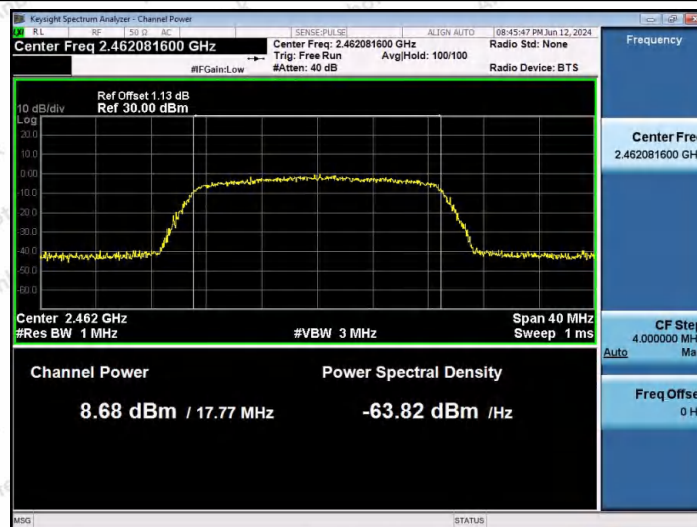




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.51	-24.51	≤8.00	PASS
11B	Ant1	2437	-14.77	-24.77	≤8.00	PASS
11B	Ant1	2462	-14.49	-24.49	≤8.00	PASS
11G	Ant1	2412	-19.17	-29.17	≤8.00	PASS
11G	Ant1	2437	-18.72	-28.72	≤8.00	PASS
11G	Ant1	2462	-13.13	-23.13	≤8.00	PASS
11N20SIS O	Ant1	2412	-19.41	-29.41	≤8.00	PASS
11N20SIS O	Ant1	2437	-18.74	-28.74	≤8.00	PASS
11N20SIS O	Ant1	2462	-13.23	-23.23	≤8.00	PASS

Note:

1. The Duty Cycle Factor($10 \cdot \log(1/D)$) and cable loss are compensated in the graph.
2. $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$



Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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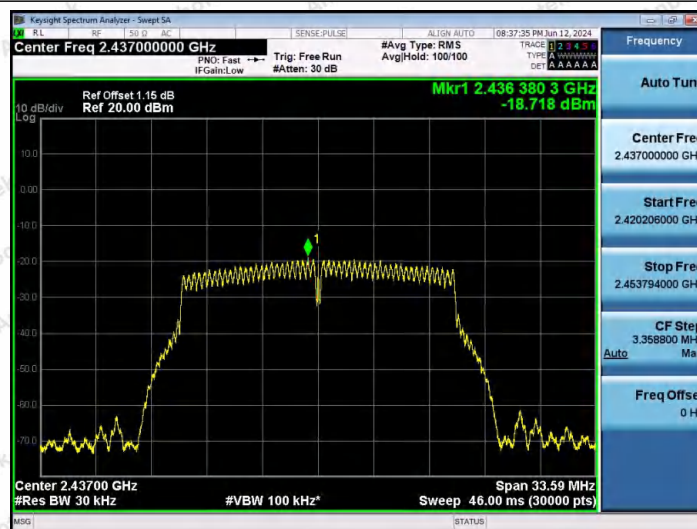


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11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

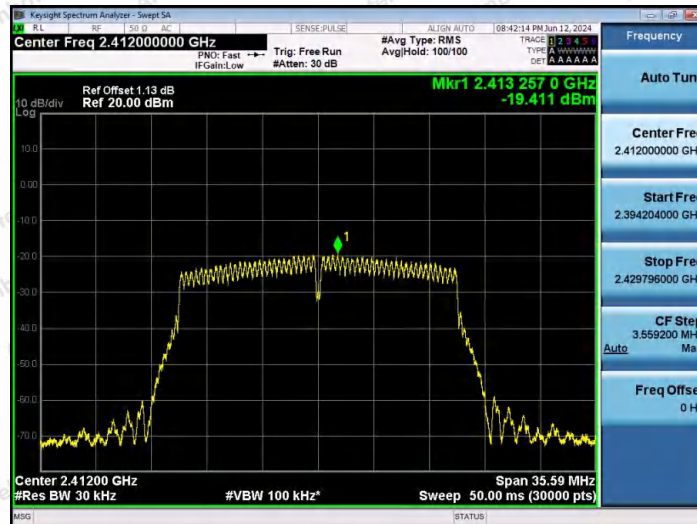
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11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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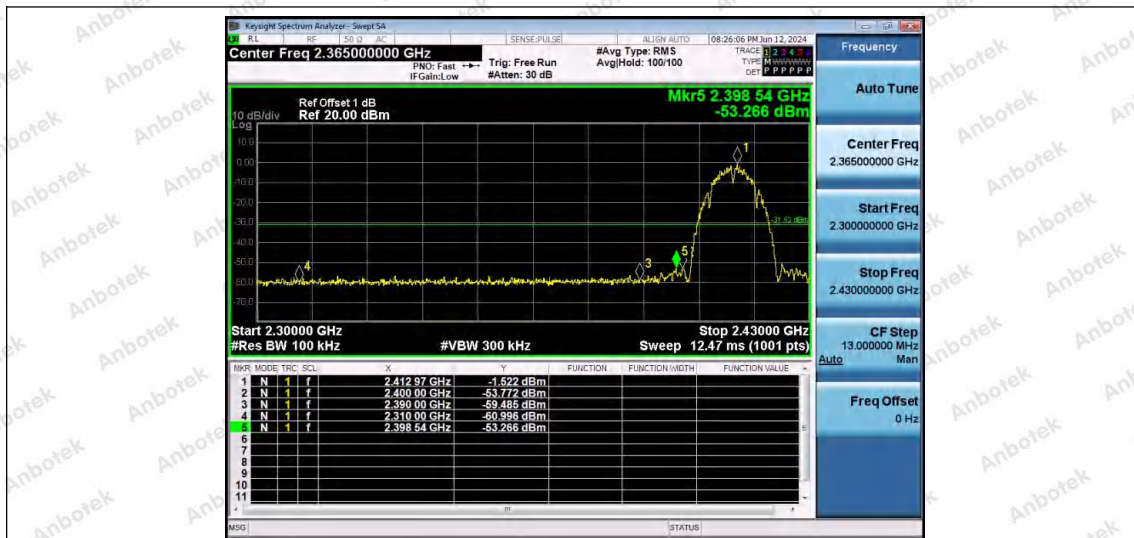
Appendix E: Conducted Band edge

Test Result

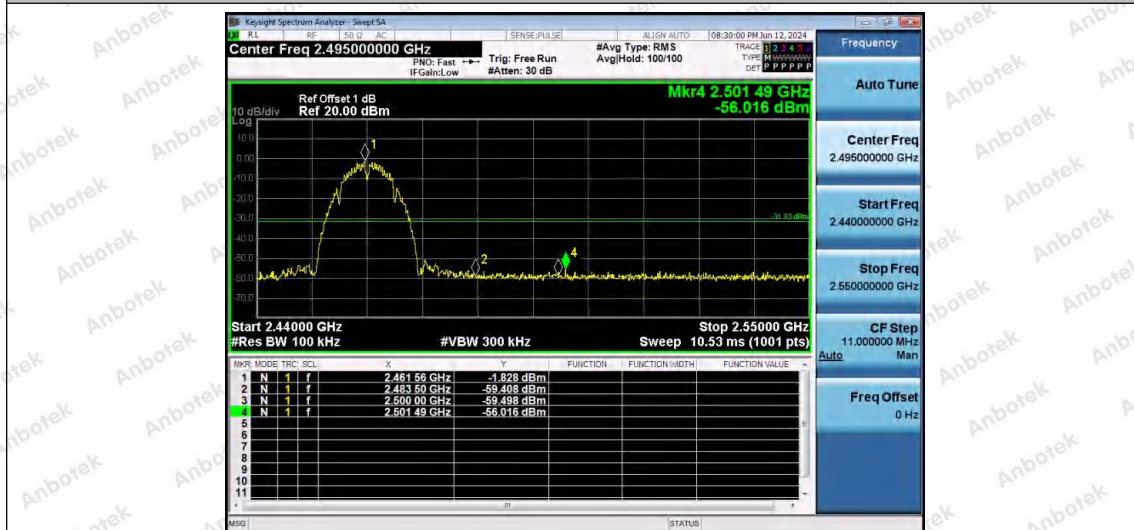
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-1.52	-53.27	≤-31.52	PASS
11B	Ant1	High	2462	-1.83	-56.02	≤-31.83	PASS
11G	Ant1	Low	2412	-5.84	-52.24	≤-35.84	PASS
11G	Ant1	High	2462	-7.38	-56.25	≤-37.38	PASS
11N20SISO	Ant1	Low	2412	-6.74	-50.55	≤-36.74	PASS
11N20SISO	Ant1	High	2462	-7.07	-55.01	≤-37.07	PASS



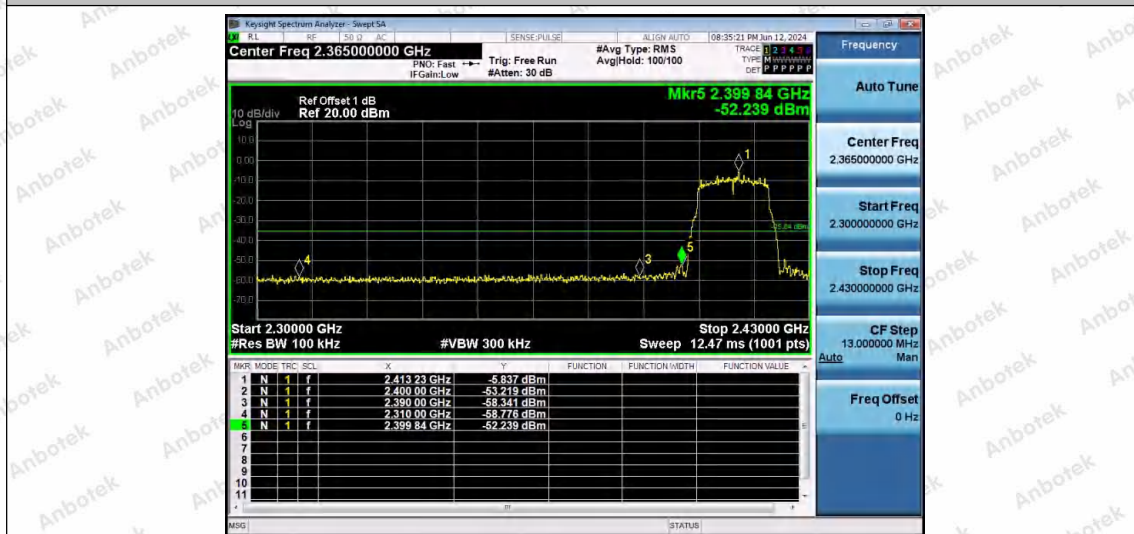
Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

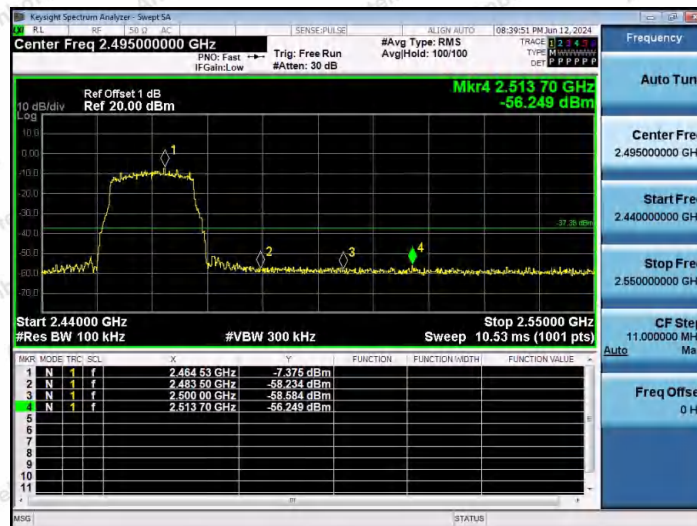
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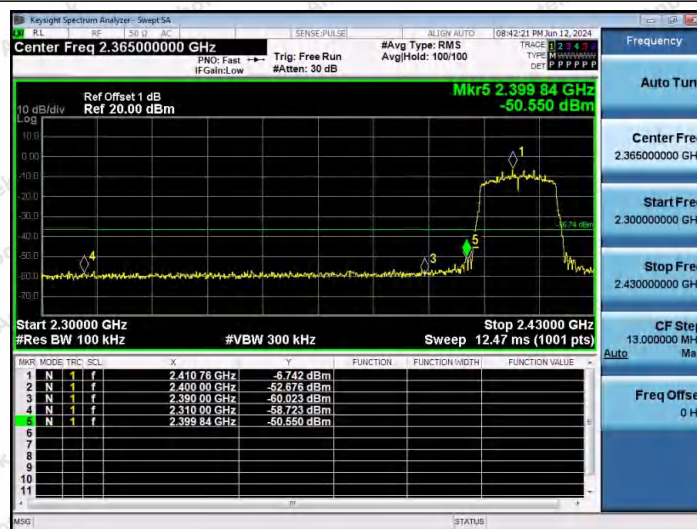


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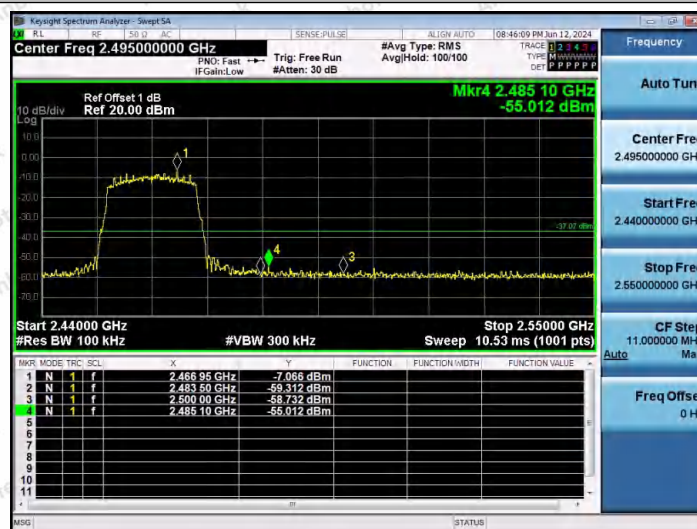




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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Appendix F: Conducted Spurious Emission

Test Result

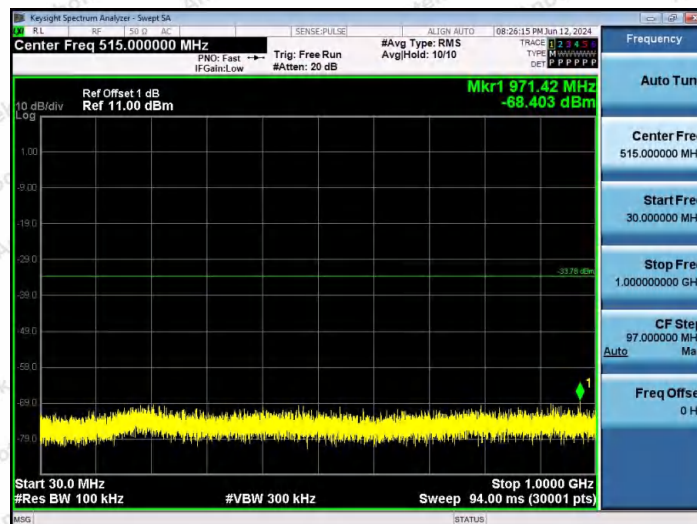
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-3.78	-3.78	---	PASS
11B	Ant1	2412	30~1000	-3.78	-68.4	≤-33.78	PASS
11B	Ant1	2412	1000~26500	-3.78	-53.25	≤-33.78	PASS
11B	Ant1	2437	0~Reference	-1.98	-1.98	---	PASS
11B	Ant1	2437	30~1000	-1.98	-67.62	≤-31.98	PASS
11B	Ant1	2437	1000~26500	-1.98	-53.55	≤-31.98	PASS
11B	Ant1	2462	0~Reference	-1.99	-1.99	---	PASS
11B	Ant1	2462	30~1000	-1.99	-67.94	≤-31.99	PASS
11B	Ant1	2462	1000~26500	-1.99	-53.07	≤-31.99	PASS
11G	Ant1	2412	0~Reference	-7.52	-7.52	---	PASS
11G	Ant1	2412	30~1000	-7.52	-67.83	≤-37.52	PASS
11G	Ant1	2412	1000~26500	-7.52	-53.27	≤-37.52	PASS
11G	Ant1	2437	0~Reference	-8.31	-8.31	---	PASS
11G	Ant1	2437	30~1000	-8.31	-68.59	≤-38.31	PASS
11G	Ant1	2437	1000~26500	-8.31	-53.3	≤-38.31	PASS
11G	Ant1	2462	0~Reference	-6.83	-6.83	---	PASS
11G	Ant1	2462	30~1000	-6.83	-68.7	≤-36.83	PASS
11G	Ant1	2462	1000~26500	-6.83	-53.07	≤-36.83	PASS
11N20SISO	Ant1	2412	0~Reference	-8.79	-8.79	---	PASS
11N20SISO	Ant1	2412	30~1000	-8.79	-68.49	≤-38.79	PASS
11N20SISO	Ant1	2412	1000~26500	-8.79	-53.53	≤-38.79	PASS
11N20SISO	Ant1	2437	0~Reference	-9.22	-9.22	---	PASS
11N20SISO	Ant1	2437	30~1000	-9.22	-69.39	≤-39.22	PASS
11N20SISO	Ant1	2437	1000~26500	-9.22	-53.53	≤-39.22	PASS
11N20SISO	Ant1	2462	0~Reference	-7.70	-7.70	---	PASS
11N20SISO	Ant1	2462	30~1000	-7.70	-68.95	≤-37.7	PASS
11N20SISO	Ant1	2462	1000~26500	-7.70	-53.78	≤-37.7	PASS



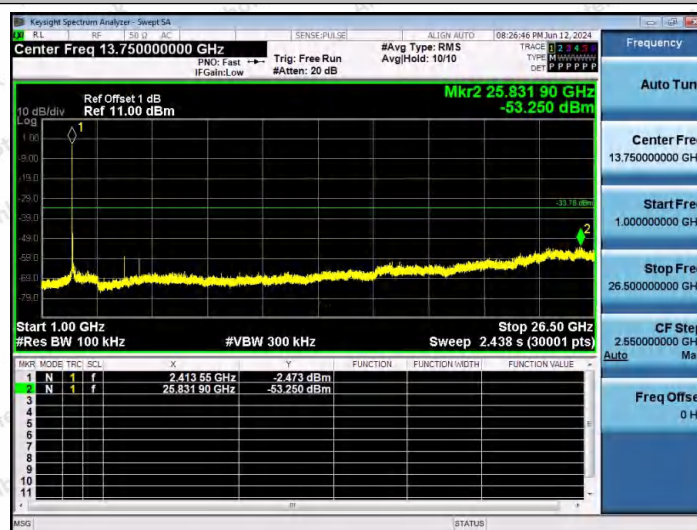
Test Graphs



11B-Ant1-2412-0~Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS

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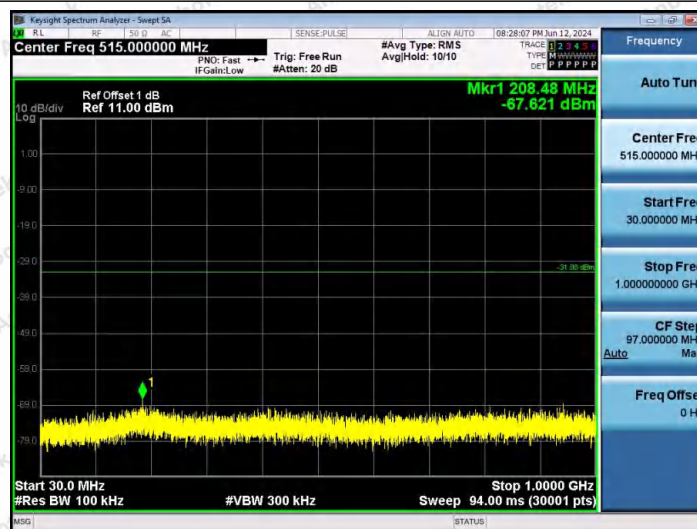


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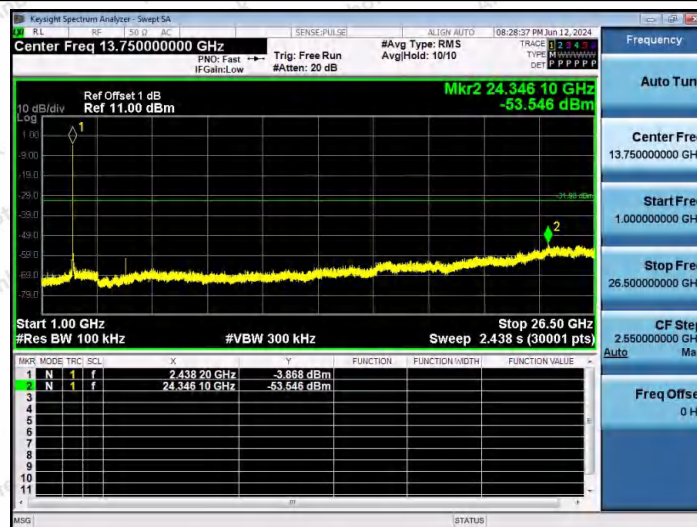




11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS

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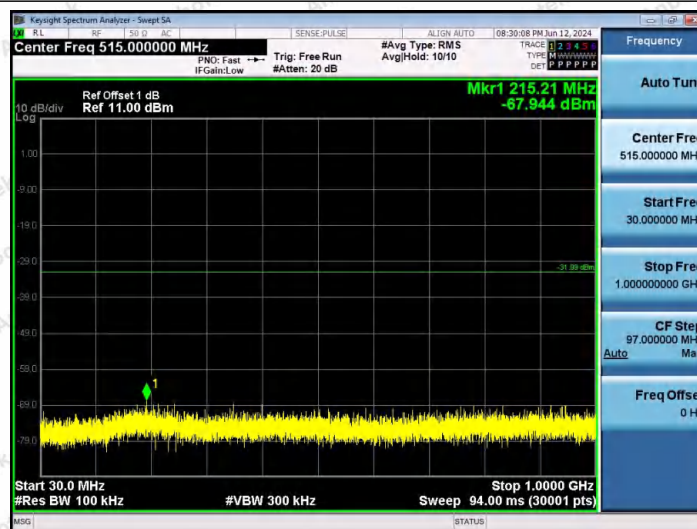


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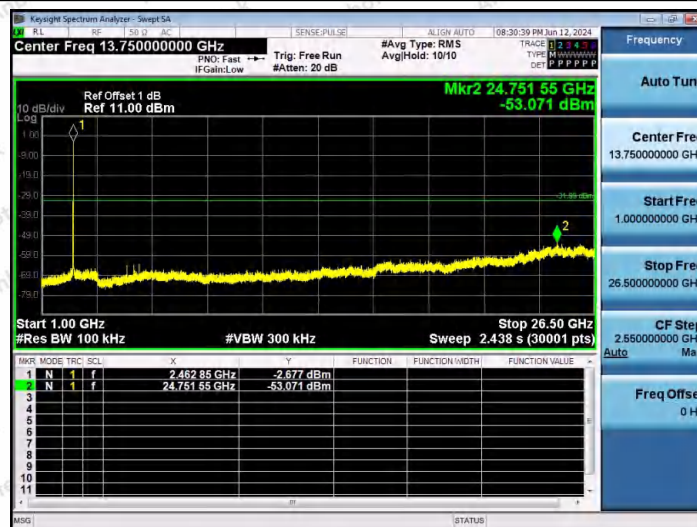




11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS

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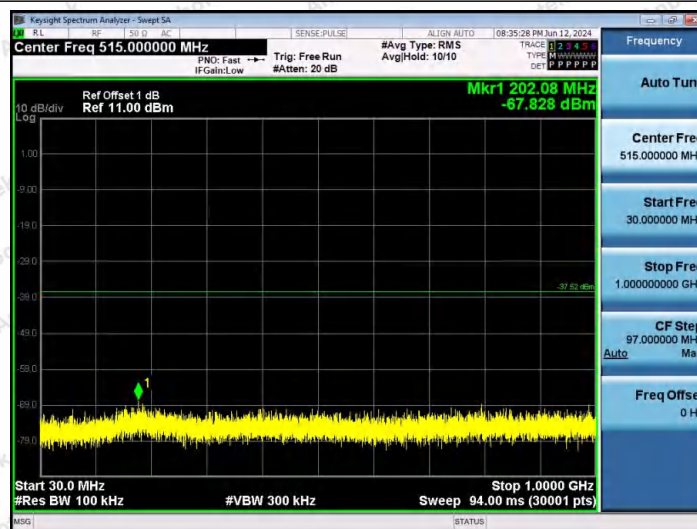


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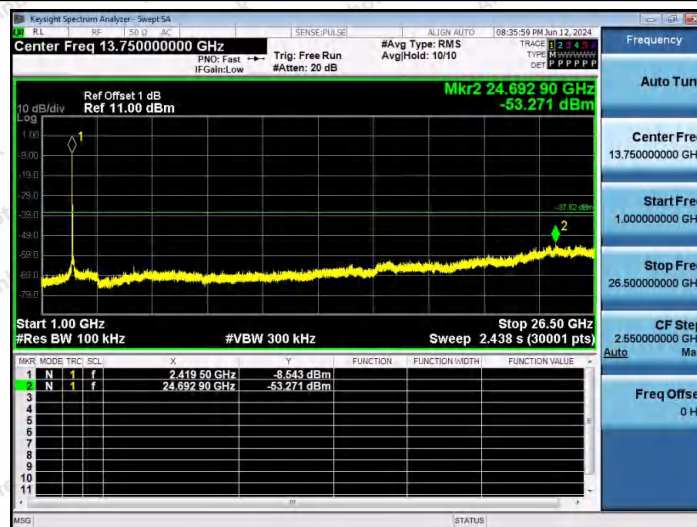




11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS

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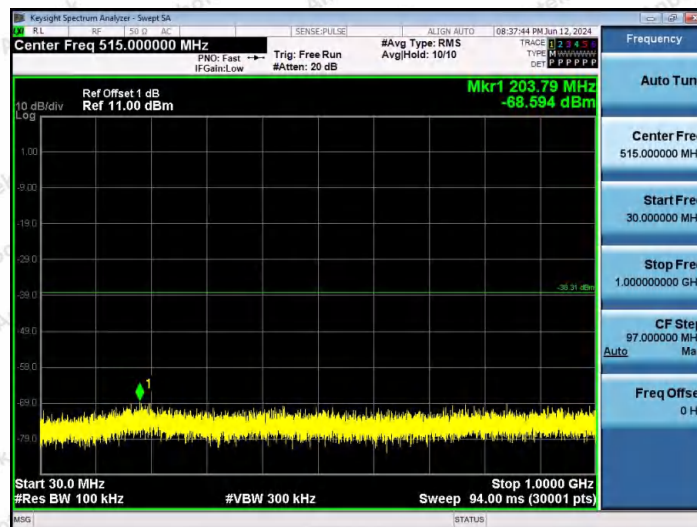


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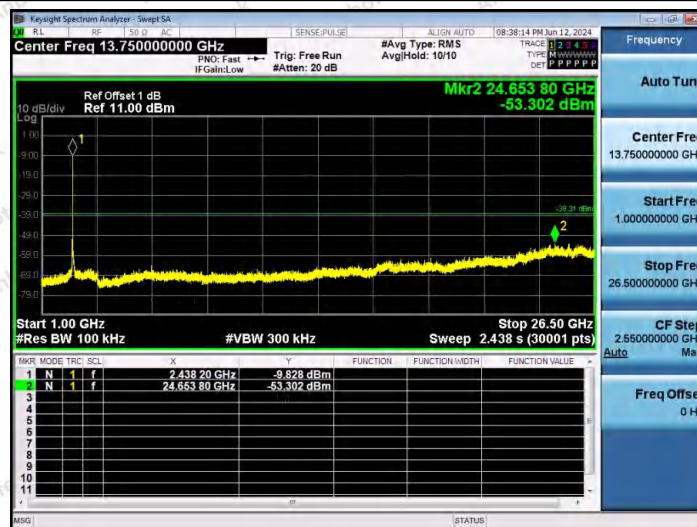




11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS

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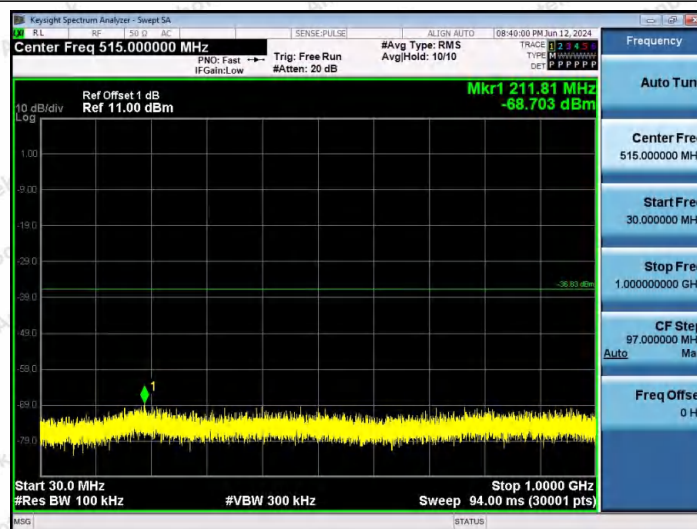
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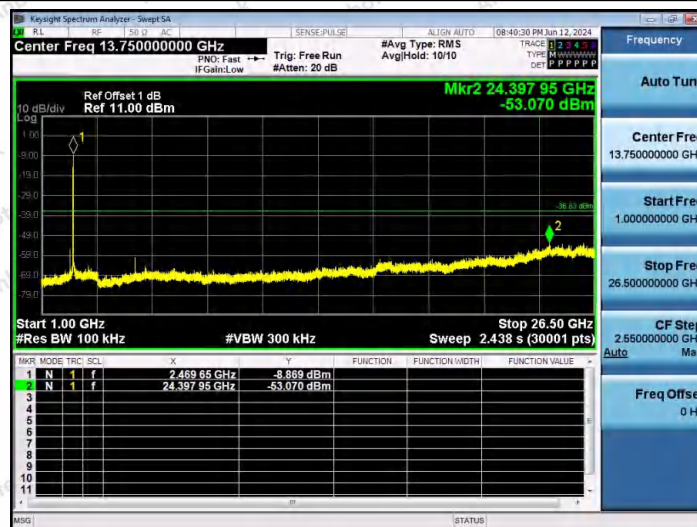




11G-Ant1-2462-0~Reference-PASS



11G-Ant1-2462-30~1000-PASS



11G-Ant1-2462-1000~26500-PASS

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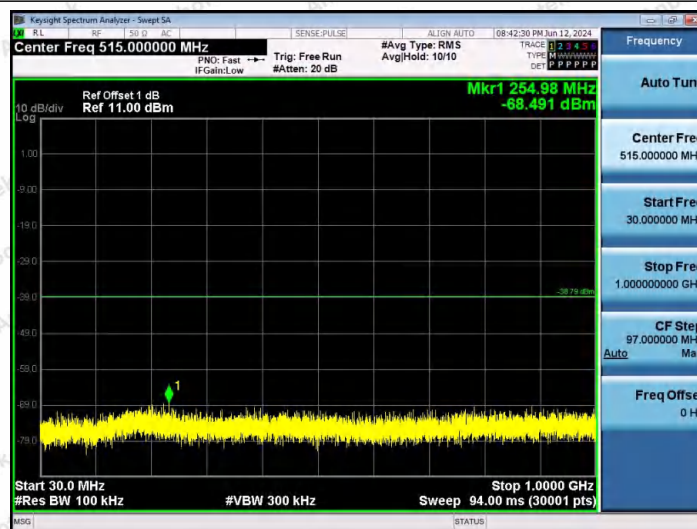


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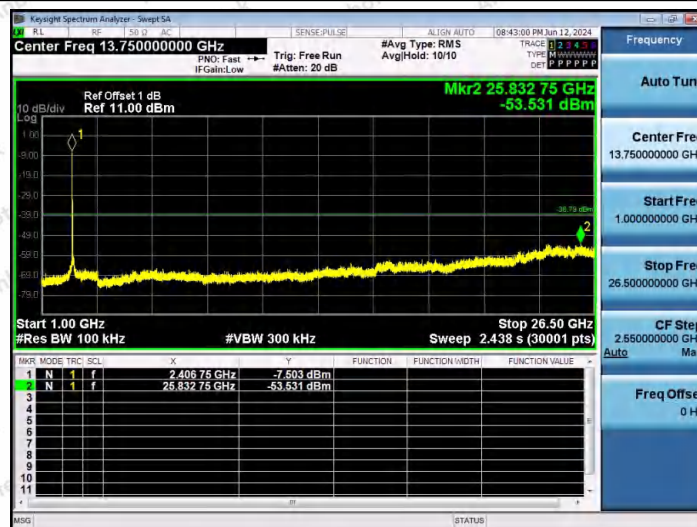




11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS



11N20SISO-Ant1-2412-1000~26500-PASS

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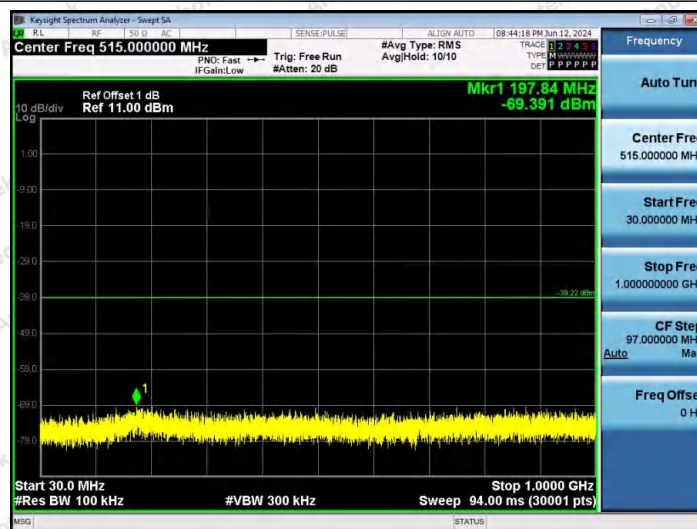


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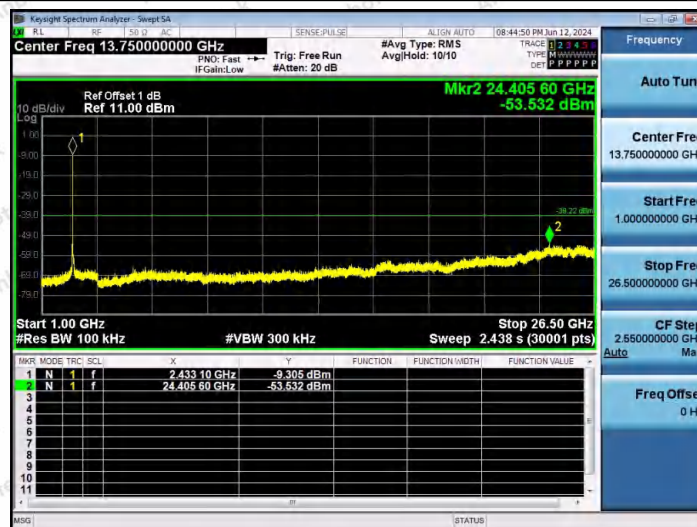




11N20SISO-Ant1-2437-0~Reference-PASS



11N20SISO-Ant1-2437-30~1000-PASS



11N20SISO-Ant1-2437-1000~26500-PASS

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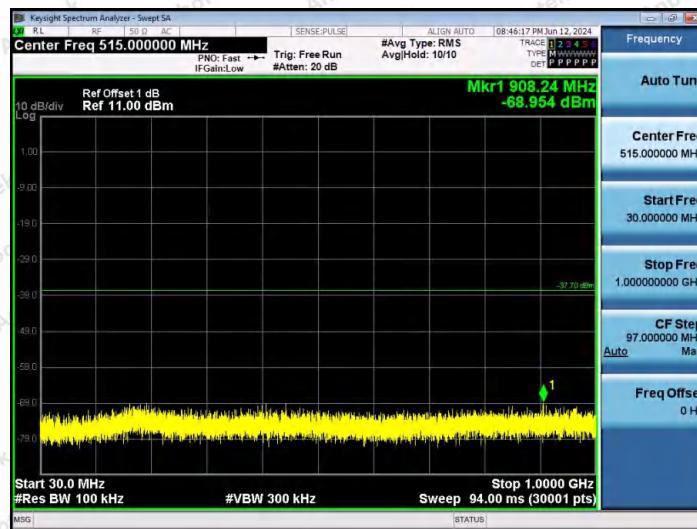


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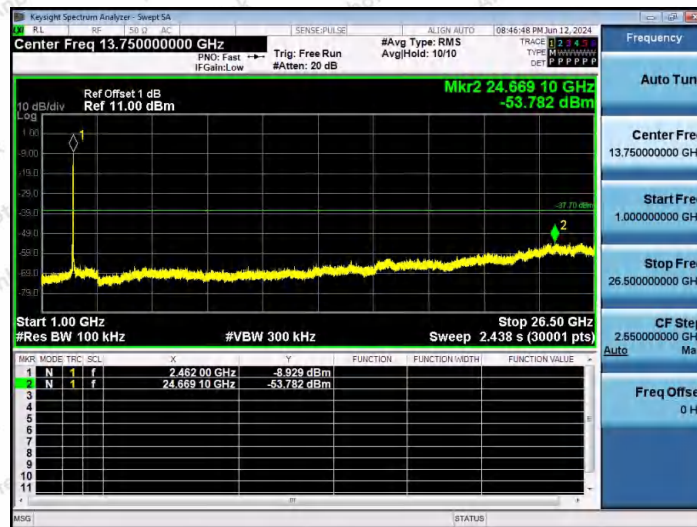




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11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

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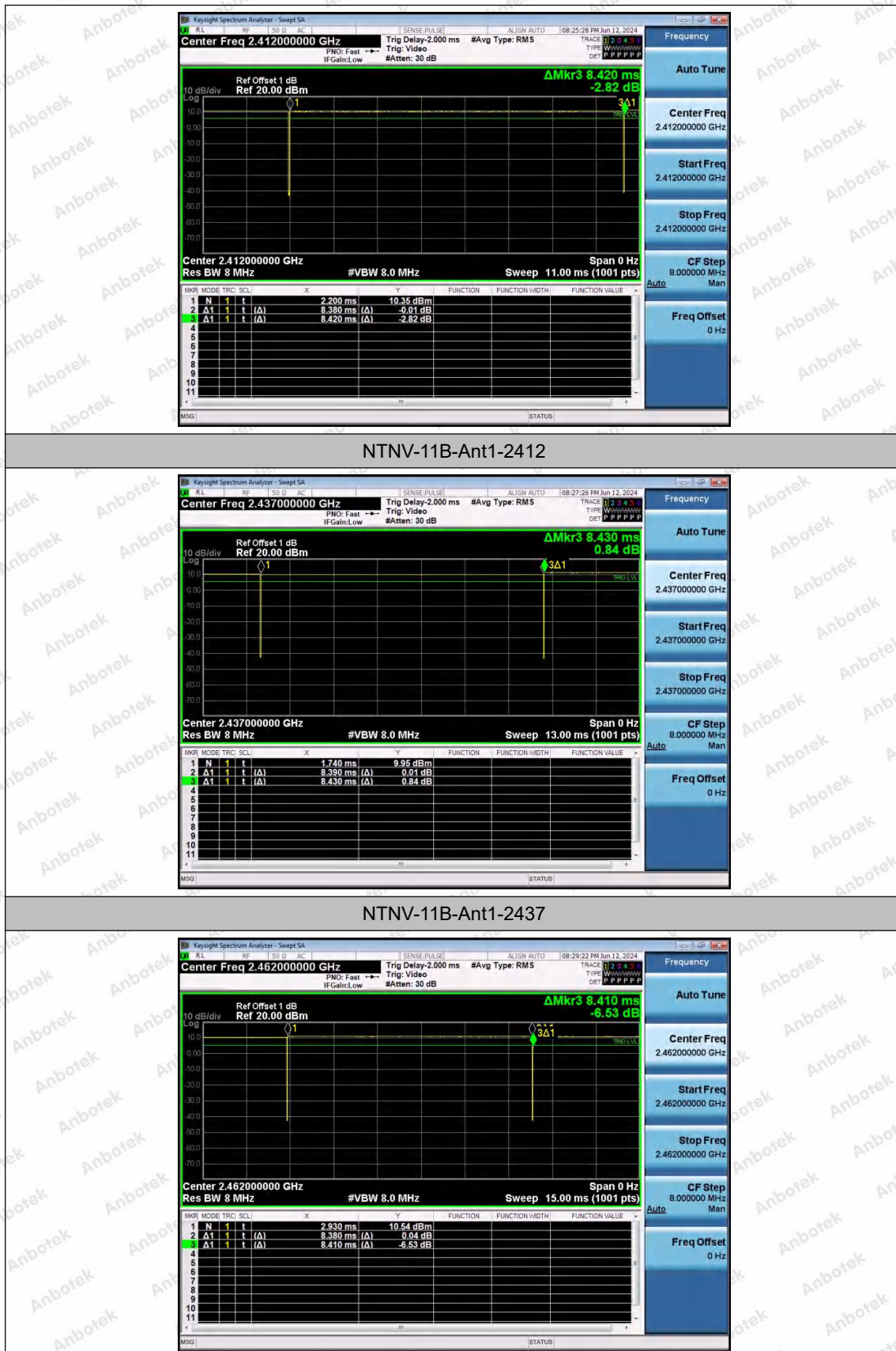
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.38	8.42	99.52	0.02
11B	Ant1	2437	8.39	8.43	99.53	0.02
11B	Ant1	2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
11G	Ant1	2437	1.39	1.44	96.53	0.15
11G	Ant1	2462	1.39	1.44	96.53	0.15
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13
11N20SISO	Ant1	2437	1.30	1.34	97.01	0.13
11N20SISO	Ant1	2462	1.30	1.34	97.01	0.13



Test Graphs



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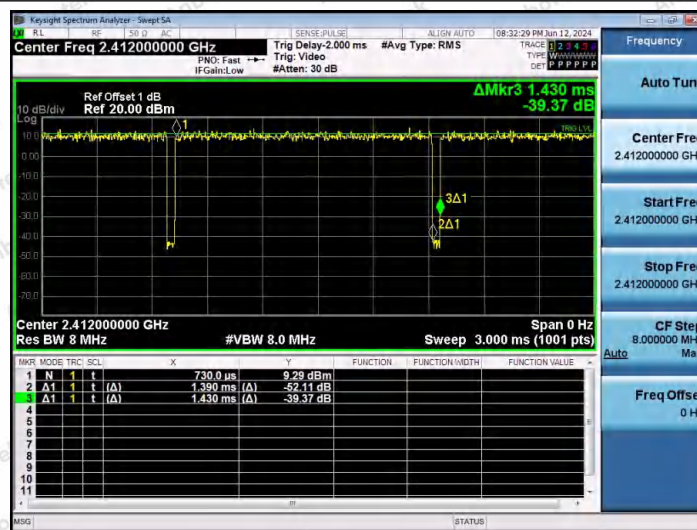
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



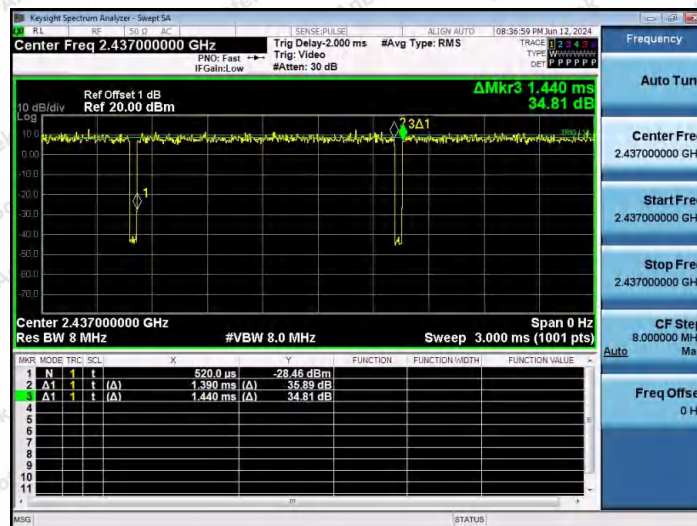
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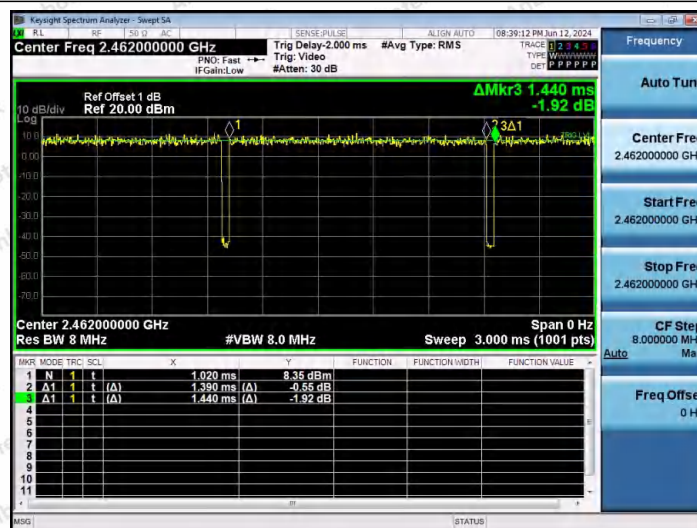
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

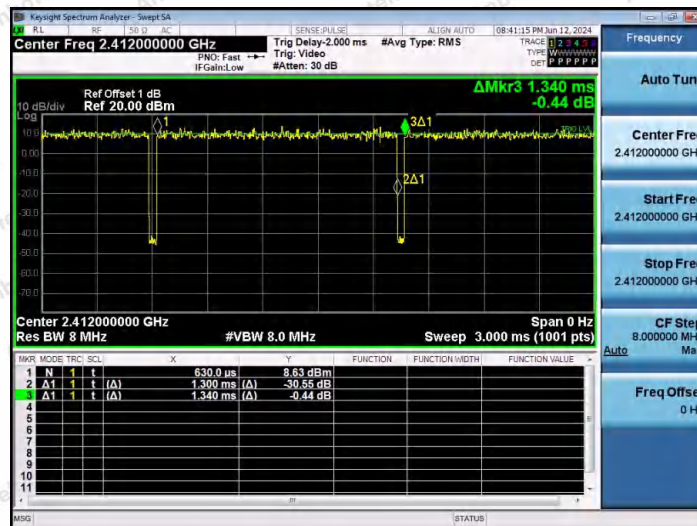
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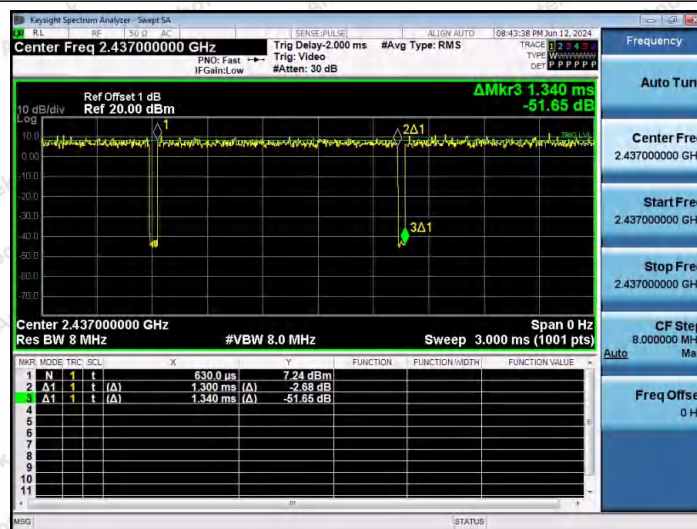


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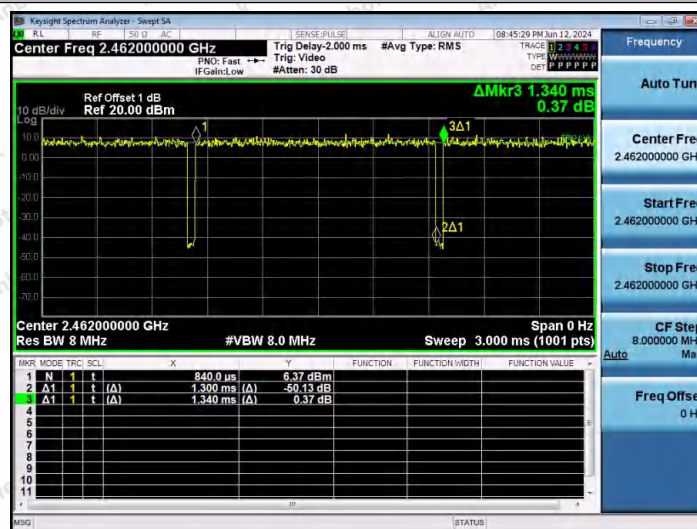




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

---End---

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